

ABSTRACT OF DISCLOSURE

038 A method that automatically controls voltage producing sources to deliver varying voltage to reduce the need for constant maximum voltage production and provides voltage switching ability between devices by maintaining the negative electrode voltage of voltage producing sources in a predetermined range. In the preferred embodiment a maximal reactive gas flow rate produces the first positive electrode voltage of a fuel cell, then positive electrode voltages repeatedly sequence at predetermined intervals from smallest to largest until the negative electrode voltage is in the desired range. Then the reactive gas flow rate and positive electrode voltage are selected. The method continues with the delivery of the selected reactive gas flow rate and consequential positive electrode voltage so as to maintain the negative electrode voltage in the desired range.